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New technology of hardening of chromium-nickel steel parts

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Abstract

© 2018 Trans Tech Publications, Switzerland. The structure and properties of the cemented products from steel 20H2N4A strengthened according to different schemes of chemical heat treatment is investigated. The reason of low static and cyclic firmness of parts is established. The new technology of hardening of parts which is based on application of low-temperature cementation is developed and offered. For a steel saturation process of intensification with carbon it is recommended to increase the content of hydrogen to 40% in the endoatmosphere and to enter a small amount of ammonia into the saturating atmosphere of the furnace.

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Keywords

Cementation, Durability, Endoatmosphere, Hardness, Microstructure, Steel

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